

## § 1214.1705

wide and diverse array of participants, including women and minorities.

[49 FR 17737, Apr. 25, 1984, as amended at 56 FR 47148, Sept. 18, 1991]

### § 1214.1705 Selection of space flight participants.

(a) The agency will publicly announce each space flight participant opportunity through appropriate means, including notice in the FEDERAL REGISTER and press releases. Each such Announcement of Opportunity will include a listing of basic qualification requirements to be met (including those of § 1214.1704(b)), a statement of the specific National Aeronautics and Space Act purposes to which this opportunity is directed, what information is required of applicants to demonstrate their ability to fulfill those purposes, the criteria on which applicants will be judged, and administrative information such as to whom applications should be directed, the opening and closing dates for applications, and any other information or matters determined to be pertinent to the program in general and/or the specific flight.

(b) All applications received in response to the AO will be screened to eliminate those applicants not meeting the basic qualification requirements.

(c) Remaining applications will be forwarded to the outside review panel established for the announcement in question and composed of members appropriate to the specific purposes stated in that announcement. The review panel will evaluate all the applications and recommend to NASA a list of those applicants who appear most likely to meet the purposes.

(d) NASA selection of applicants qualified to undergo necessary training and be certified for flight will be made by the Committee, based upon criteria that include:

(1) Recommendation of the outside review panel.

(2) Ability to undergo successfully the necessary period of training to ensure adaptation to flight experience and mission activities.

(3) Ability to pass medical and psychological examinations to minimize the possibility of hazard to persons or missions.

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(4) Adaptability to living and working in space.

(5) Willingness to enter into an agreement with NASA covering pre-flight, flight, and post-flight activities, with individual rights and responsibilities set forth in that agreement.

(6) Satisfactory completion of a background investigation conducted to NASA's standards as adjudicated by the NASA Security Officer.

(e) The Committee will submit a list of those candidates suitable for selection to the NASA Administrator, who will select the requisite number to undergo the necessary training to prepare them for space flight.

(f) Those candidates who successfully complete the training will become qualified as space flight participants. Flight assignments will be made by the Administrator from this qualified group. NASA reserves the right to solicit additional space flight participant applications, if necessary.

(g) Authority to officially designate candidates for training, certify candidates as qualified space flight participants, and assign space flight participants to specific Space Shuttle flights is reserved to the Administrator.

### § 1214.1706 Program management.

The Associate Administrator for Space Flight is responsible for program management under the direction of the Committee chairperson.

### § 1214.1707 Media and public inquiries.

(a) The Associate Administrator for External Relations will respond to all inquiries directed to the agency concerning space flight participants and the process by which they are selected.

(b) The names of all applicants will be withheld from public release until the space flight participants are selected by the Administrator.

## PART 1215—TRACKING AND DATA RELAY SATELLITE SYSTEM (TDRSS)

### Subpart 1215.1—Use and Reimbursement Policy for Non-U.S. Government Users

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AUTHORITY: Sec. 203, Pub. L. 85-568, 72 Stat. 429, as amended; 42 U.S.C. 2473.

SOURCE: 48 FR 9845, Mar. 9, 1983, unless otherwise noted.

### Subpart 1215.1—Use and Reimbursement Policy for Non-U.S. Government Users

#### § 1215.100 General.

The TDRSS represents a major investment by the U.S. Government with the primary goal of providing improved tracking and data acquisition services to spacecraft in low earth orbit or to mobile terrestrial users such as aircraft or balloons. It is the objective of NASA to operate as efficiently as possible with the TDRSS. This is to the mutual benefit of all users. Such user consideration will permit NASA and non-NASA service to be delivered without compromising the mission objectives of any individual user. To encourage users toward achieving efficient TDRSS usage, this reimbursement policy has been established to purposely influence users to operate with TDRSS in the most efficient and orderly manner possible. Additionally, the reimbursement policy is designed to comply with the Bureau of the Budget Circular A-25 on User Charges, dated September 23, 1959, which requires that a reasonable charge should be made to each identifiable recipient for a measurable

unit or amount of Government service or property from which a special benefit is derived.

[56 FR 28048, June 19, 1991]

#### § 1215.101 Scope.

This subpart sets forth the policy governing TDRSS services provided to non-U.S. government users and the reimbursement for rendering such services. It excludes TDRSS services provided as standard or optional services to Space Transportation System (STS) users under existing policy for Shuttle and Spacelab (14 CFR subparts 1214.1, 1214.2, and 1214.8); i.e., user command and telemetry support, which utilizes and is a part of the Shuttle or Spacelab communications system, is a Shuttle/Spacelab service. Cooperative missions are also not under the purview of this subpart. The arrangements for TDRSS services for cooperative missions will be covered in a Memorandum of Understanding (MOU), as a consequence of negotiations between NASA and the other concerned party. Any MOU which includes provision for any TDRSS service will require signatory concurrence by the Associate Administrator for Space Operations prior to dedicating Office of Space Operations resources for support of a cooperative mission.

[56 FR 28048, June 19, 1991]

#### § 1215.102 Definitions.

(a) *User*. Any non-U.S. Government representative or entity who contracts with NASA to use TDRSS services.

(b) *TDRSS*. The Tracking and Data Relay Satellite System including Tracking and Data Relay Satellites (TDRS), the White Sands Ground Terminal (WSGT), and the necessary TDRSS operational areas, interface devices and NASA communication circuits to unify the above into a functioning system. It specifically excludes the user ground system/TDRSS interface.

(c) *Bit stream*. The digital electronic signals acquired by TDRSS from the user craft or the user generated input commands for transmission to the user craft.

(d) *Flexible support*. Support requests which permit NASA, at its option, to schedule service at any time during the

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period of a single orbit of the user mission. Missions requiring multiple support periods during a single orbit may be classified as constrained support.

(e) *Constrained support.* Support requests which specify the exact times NASA is to provide service, or conditions of support which can be translated into exact times for service, such as sub-satellite positions, apogee/perigee position, etc., for which support is needed.

(f) *Scheduling service period.* One scheduled contact utilizing a single TDRS whereby the user by requesting service is allotted a block of time for operations between the user satellite and TDRSS.

## § 1215.103 Services.

(a) *Standard services.* These are services which the TDRSS is capable of providing to low-earth orbital user spacecraft or other terrestrial users.

(1) Tracking services.

(2) Data acquisition service.

(3) Command transmission service.

(4) Emergency line outage recording in the event of a communications failure between White Sands, Goddard Space Flight Center (GSFC), and Johnson Space Center (JSC).

(5) A weekly user spacecraft orbit determination in NASA standard orbital elements as determined by NASA for TDRSS target acquisition purposes.

(6) Delivery of user data at the NASA Ground Terminal (NGT) located at White Sands.

(7) Pre-launch support for data flow test and related activities which require use of a TDRS.

(8) Pre-launch support planning and documentation.

(9) Scheduling user services via TDRSS.

(10) Access to tracking data to enable users to perform orbit determination at their option.

(b) *Mission unique services.* Other tracking and data services desired by the user beyond the standard service and the charges therefor, will be identified and assessed on a case-by-case basis.

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## § 1215.104 Apportionment and assignment of services.

No user may apportion, assign, or otherwise convey to any third party its TDRSS service. Each user may obtain service only through contractual agreement with the Associate Administrator for Space Operations.

[56 FR 28048, June 19, 1991]

## § 1215.105 Delivery of user data.

(a) As a standard service, NASA will provide to the user its data from the TDRSS as determined by NASA in the form of one or more digital or analog bit streams synchronized to associated clock streams at the NGT.

(b) User data handling requirements beyond the NGT interface will be provided as a standard service to the user, to the extent that the requirements do not exceed NASA's planned standard communications system. Any additional data transport or handling requirements exceeding NASA's capability will be dealt with as a mission-unique service.

(c) No storage of the user data is provided in the standard service. NASA will provide short-term temporary recording of data at White Sands, only in event of a NASA Communications Network (NASCOM) link outage.

(d) NASA will provide TDRSS services on a "reasonable efforts" basis and, accordingly, will not be liable for damages of any kind to the user or third parties for any reason, including but not limited to failure to provide contracted-for services. The price for TDRSS services does not include a contingency or premium for any potential damages. The user will assume any risk of damages or obtain insurance to protect against any risk.

[48 FR 9845, Mar. 9, 1983, as amended at 56 FR 28049, June 19, 1991]

## § 1215.106 User command and tracking data.

(a) User command data may enter the TDRSS via the NASCOM interface at one of three locations:

(1) For Shuttle payloads which utilize the Shuttle commanding system, command data must enter the system via the Johnson Space Center (JSC)

and is governed by the policies established for STS services (see § 1215.101).

(2) For free flyers and other payloads, command data must enter the system at the Goddard Space Flight Center (GSFC) if it is to be a standard service.

(3) The use of other command data entry points [e.g., the NASA Ground Terminal (NGT) at White Sands, NM, or Johnson Space Center (JSC), for payloads using an independent direct link from TDRS to the user payload] is considered to be a mission unique service.

(b) NASA is required to maintain the user satellite orbital elements to sufficient accuracy to permit the TDRS system to establish and maintain acquisition. This can be accomplished in two ways:

(1) The user can provide the orbital elements in a NASA format to GSFC to meet TDRSS operational requirements.

(2) The user shall insure that a sufficient quantity of tracking data is received at GSFC to permit the determination of the user satellite orbital elements. The charges for this service will be determined by using the on-orbit service rates.

#### **§ 1215.107 User data security and frequency authorizations.**

(a) User data security is not provided by the TDRSS. Responsibility for data security resides solely with the user. Users desiring data safeguards shall provide and operate, external to the TDRSS, the necessary equipment or systems to accomplish data security. Any such user provisions must be compatible with data flow through TDRSS and not interfere with other users.

(b) All radio frequency authorizations associated with operations pursuant to this directive are the responsibility of the user. If appropriate, authority(ies) must be obtained from the Federal Communications Commission (FCC) for operations consistent with U.S. footnote 303 of the National Table of Frequency Allocations, FCC Rules and Regulations, at 47 CFR 2.106.

[56 FR 28049, June 19, 1991]

#### **§ 1215.108 Defining user service requirements.**

Potential users should become familiar with TDRSS capabilities and con-

straints, which are detailed in the TDRSS User's Guide (GSFC document, STDN No. 101.2), as early as possible. This action allows the user to evaluate the trade-offs available among various TDRSS services, spacecraft design, operations planning, and other significant mission parameters. When these user evaluations have been completed, and the user desires to use TDRSS, the user should initiate a request for TDRSS service.

(a) Initial requests for TDRSS service from non-U.S. Government users should be addressed to NASA Headquarters, Code OX, Space Network Division, Washington, DC 20546. Upon review and preliminary acceptance of the service requirements by NASA Headquarters, the appropriate areas of GSFC will be assigned to the project to produce the detailed requirements, plans and documentation necessary for support of the mission. Changes to user requirements shall be made as far in advance as possible and shall be submitted in writing to both NASA Headquarters, Code OX, Space Network Division, and GSFC, Code 501, Greenbelt, MD 20771.

(b) Acceptance of user requests for TDRSS service is the sole prerogative of NASA. Although TDRSS represents a significant increase to current support capabilities, service capacity is finite, and service will be provided in accordance with operational priorities established by NASA. Request for services within priority groups shall be negotiated with non-NASA users on a first come, first service basis for inclusion into the TDRSS mission model.

[48 FR 9845, Mar. 9, 1983, as amended at 56 FR 28049, June 19, 1991]

#### **§ 1215.109 Scheduling user service.**

(a) User service shall be scheduled only by NASA. Scheduling refers to that activity occurring after the user has been accepted and placed in the TDRSS mission model as specified in § 1215.108(b). See appendix C for a description of a typical user activity timeline.

(b) Schedule conflict will be resolved in general by application of principles of priority to user service requirements. Services shall be provided either as normally scheduled service or

as emergency/disruptive update service. Priorities will be different for emergency/disruptive updates than for normal services.

(1) Normally scheduled service is service which is planned and ordered under normal operational conditions and is subject to schedule conflict resolution under normal service priorities. Priorities are established by the NASA Administrator or his/her designee. Requests for normally scheduled service must be received by the schedulers at the GSFC Network Control Center (NCC) no later than 45 minutes prior to requested support time.

(2) Normal scheduling principles of priority are generally ordered as follows beginning with the highest priority:

- (i) Launch, reentry, landing of the STS Shuttle, or other NASA launches.
- (ii) NASA payloads/spacecraft.
- (iii) Other payloads/spacecraft of interest to the United States.
- (iv) Other payloads/spacecraft launched by a NASA launch vehicle.
- (v) Other payloads/spacecraft.
- (vi) Support of other launches.

(3) Exceptions to these priorities may be determined on a case-by-case basis with the NASA Administrator or his/her designee as the priorities stated in paragraph (b)(2) of this section are indicative of general rather than specific cases.

(4) Emergency service conditions are those requiring rapid response to changing user service requirements. Emergency service may be instituted under the following conditions:

- (i) Circumstances which pose a threat to the security of the United States.
- (ii) Circumstances which threaten human life.
- (iii) Circumstances which threaten user mission loss.
- (iv) Other circumstances of such a nature which make it necessary to preempt normally scheduled services.

(5) At times, emergency service requirements will override normal schedule priority. Under emergency service conditions, disruptions to schedule service will occur. As a consequence, users requiring emergency service shall be charged for emergency service at rate factors set forth in appendix B.

(6) Disruptive updates are scheduled updates which, by virtue of priorities, cause previously scheduled user services to be rescheduled or deleted or are requested by the user less than 45 minutes prior to the scheduled support period.

(i) Disruptive updates will be charged at the same rates as emergency service. User initiated schedule requests which are received less than 45 minutes prior to the requested schedule support time will be considered a disruptive update.

(ii) User initiated schedule requests which are received more than 45 minutes and less than 12 hours prior to the scheduled support period will be acted upon as a routine input provided other users are unaffected. If other users are affected, the scheduling input will be considered a disruptive update and the appropriate charge factor will be applied.

(iii) The Network Control Center (NCC) at GSFC reserves the sole right to schedule, reschedule or cancel TDRSS service. Schedule changes brought about through no fault of the user are not charged the factor for a disruptive update.

(7) While the priority listing remains the general guide for establishing support availability, the NASA schedulers will exercise judgment and endeavor to see that lower priority users are not excluded from a substantial portion of their contracted-for service due to the requirements of higher priority users.

(8) When a user contracts for TDRSS service for an "operational satellite" which interfaces with a significant number of national and world-wide users on a regularly scheduled basis as opposed to a "research and development satellite," NASA will place special emphasis on the operational requirement when planning schedules. This should reduce the probability of losing perishable operational data such as meteorological, climate, or earth resources information.

(c) General user service requirements, which will be used for preliminary planning and mission modeling, should include as a minimum, the following:

- (1) Date of service initiation.

(2) Expected date of service termination.

(3) The type of TDRSS services desired [e.g., multiple access, tracking, etc.].

(4) The frequency and duration of each service, including orbital position or time constraints on service delivery from a given spacecraft where appropriate.

(5) Orbital or trajectory parameters and tracking data requirements.

(6) Spacecraft events affecting tracking, telemetry or command requirements.

(7) Signal parameters and data rates by type of service, type and location of antennas and other related information dealing with user tracking, command, and data systems.

(8) Special test requirements, compatibility testing, data flows, simulations, etc.

(9) Identification of type and quantity of user information necessary for control functions, location of user control facility, and identification of communications requirements.

(10) Identification of ground communications requirements and interface points, including the level of support to be requested from NASCOM.

(d) To provide for effective planning, general service requirements should be provided at least 3 years before initiation of service. With these data NASA will determine whether the requested services can be provided.

(e) Detailed requirements for user services must be provided 18 months before the initiation of service. These data will be the basis for the technical definition of the Interface Control Document (ICD). If requirements are received late, necessitating extraordinary NASA activities [e.g., overtime, special printing of documents], such activities will be considered to be mission unique and their cost charged the user.

[48 FR 9845, Mar. 9, 1983, as amended at 56 FR 28049, June 19, 1991]

#### **§ 1215.110 User cancellation of all services.**

The user has the right to terminate its service contract with NASA at any time. A user who exercises this right after contracting for service shall pay

the charge agreed upon for services previously rendered, and the cost incurred by the Government for support of pre-launch activities, services, and mission documentation not included in that charge. The user will remain responsible for the charges for any services actually provided.

#### **§ 1215.111 User postponement of service.**

The user may postpone the initiation of contracted service (e.g., user launch date) by delivery of written notification to NASA Headquarters, Code OX. Any delay in the contracted start of service date may affect the quantity of service to be provided due to commitments to other support requirements. Therefore, the validity of previous estimates of predicted support availability may no longer be applicable.

[56 FR 28049, June 19, 1991]

#### **§ 1215.112 User/NASA contractual arrangement.**

(a) The NASA Administrator reserves the right to waive any portion of the reimbursement due to NASA under the provisions of the reimbursement policy.

(b) When NASA has determined that a potential user has not made sufficient progress toward concluding a contractual arrangement for service, after being placed in a mission model, NASA shall have the unilateral right to remove that user from the mission model.

(c) NASA shall have the right to determine unilaterally that the potential user has failed to make progress toward concluding a contractual arrangement.

#### **§ 1215.113 User charges.**

(a) The user shall reimburse NASA the sum of the charges for standard and mission-unique services. Charges will be based on the service rates applicable for the calendar year.

(b) For standard services the user shall be charged only for services rendered, except that if a total cancellation of service occurs, the users shall be charged in accordance with the provisions of § 1215.110.

(1) Standard services which are scheduled, and then cancelled by the

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user less than 12 hours prior to the start of that scheduled service period, will be charged as if the scheduled service actually occurred.

(2) The time scheduled by the user project shall include the slew time, set up and/or configuration time, TDRSS contact time, and all other conditions for which TDRSS services were allocated to the user.

(3) Charges will be accumulated by the minute, based on the computerized schedule/configuration messages which physically set up the TDRSS equipment at the start of a support period and free the equipment for other users at the end of a support period.

(c) The user shall reimburse NASA for the costs of any mission unique services provided by NASA.

(d) Any person or entity which pays to NASA the initial administrative charge (see § 1215.115) does so with the understanding that it is not refundable whether or not an agreement is entered into with NASA for TDRSS services.

[48 FR 9845, Mar. 9, 1983, as amended at 56 FR 28049, June 19, 1991]

#### § 1215.114 Service rates.

(a) Non-U.S. Government user rates will reflect TDRSS total operational and maintenance costs prorated to a per-minute basis.

(b) Rates for TDRSS services will be set by the Associate Administrator for Space Operations each October for the following year, January through December. Rate variations will reflect changes in operating costs, loading formulas and escalation.

(c) Projected estimates will include escalation bases on the Bureau of Labor Statistics Index for compensation per hour—total private.

(d) Appendix A is provided for preliminary planning purposes only. It delineates the rate per minute by service and type of user. These rates are subject to change.

(e) The per minute charge for TDRSS service is computed by multiplying the charge per minute for the appropriate service by the number of minutes scheduled and the appropriate factor

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(for flexible, constrained or disruptive/emergency service).

[48 FR 9845, Mar. 9, 1983, as amended at 49 FR 10659, Mar. 22, 1984; 56 FR 28049, June 19, 1991]

#### § 1215.115 Payment and billing.

(a) To each user there will be an initial non-refundable administrative charge of \$25,000 which is applicable toward TDRSS operational services.

(b) The procedure for billing and payment of standard TDRSS services is as follows:

(1) The calendar year is divided into two service periods, January through June and July through December. The charge for TDRSS service will be determined in October for the succeeding calendar year.

(2) The estimated cost of service, January through June period, will be due the previous July 1, and will be billed 60 days prior to the payment due date.

(3) The estimated cost of service, July through December period, will be due the previous January 1, and will be billed 60 days prior to the payment due date.

(4) Adjustments to the amounts prepaid will be made to the succeeding billings as the actual service time is tabulated. Amounts due to the user will be credited to the next service period or refunded to the user if no more service is to be provided.

(5) The total estimated cost of all standard pre-launch services such as mission planning, documentation, link analysis, testing, computer, human resources, etc., with the exception of TDRSS operational services, will be paid to the Government prior to NASA rendering such services. This advance payment will be applied as a credit to the charges billed for post-launch TDRSS operational services as specified in paragraphs (b) (1) through (4) of this section.

(c) Payment schedules for mission unique services will be mutually developed between NASA the user on a case-by-case basis, dependent upon level of engineering effort, long-lead items, special communication services or other considerations. Payment will generally be made prior to NASA incurring a cost for mission unique service.

(d) Late payments by the user will require the user to pay a late payment charge equal to 1½% per month of the unpaid balance calculated daily from the date the payment was due until the date payment is made.

**APPENDIX A TO PART 1215—ESTIMATED SERVICE RATES IN 1997 DOLLARS FOR TDRSS STANDARD SERVICES (BASED ON NASA ESCALATION ESTIMATE)**

TDRSS user service rates for services rendered in CY-97 based on current projections in 1997 dollars are as follows:

1. *Single Access Service*—Forward command, return telemetry, or tracking, or any combination of these, the base rate is \$184.00 per minute for non-U.S. Government users.

2. *Multiple Access Forward Service*—Base rate is \$42.00 per minute for non-U.S. Government users.

3. *Multiple Access Return Service*—Base rate is \$13.00 per minute for non-U.S. Government users.

Due to the advent of commercial launch service customers, an addendum will be required to reflect rates for service rendered under the Commercial Space Launch Act (CSLA). Due to statutory requirements, the rates are slightly different for CSLA customers.

CSLA customer rates:

1. *Single Access Service*—Base rate is \$180 per minute for CSLA users.

2. *Multiple Access Forward Service*—Base rate is \$39 per minute for CSLA users.

3. *Multiple Access Return Service*—Base rate is \$13 per minute for CSLA users.

[61 FR 46713, Sept. 5, 1996]

**APPENDIX B TO PART 1215—FACTORS AFFECTING STANDARD CHARGES**

Charges for services shall be determined by multiplying the factors below by the base rates for standard services set forth in appendix A.

	Flexi- ble	Time or position con- strained	Emer- gency service, disruptive updates
Single access service .....	.5	1	2
Multiple access forward (command) service .....	.67	1	2
		Normally sched- uled sup- port	Emer- gency service, disruptive updates
Multiple access return (telemetry) service .....		1	2

**APPENDIX C TO PART 1215—TYPICAL USER ACTIVITY TIMELINE**

Time (approximate)	Activity
Project conceptualization (At least 3 years before launch; Ref. § 1215.108(a)).	Request NASA Headquarters perform study to determine availability of TDRSS. If accepted as a user, begin contractual negotiation by submission of \$25,000 non-refundable charge, and place into mission model.
3 years before launch (Ref. § 1215.109(c)).	Submit general user requirements to permit preliminary planning. Begin payment for pre-mission activities (Ref. § 1215.115(b)(5)).
18 months before launch (earlier if interfacing is expected)..	Provide detailed requirements for technical definition and development of operational documents and ICD's. (Ref. § 1215.109(e)). If appropriate, initiate action with the Federal Communications Commission for license to communicate with TDRSS at least 18 months prior to launch (Ref. § 1215.107(b)).
3 weeks prior to a scheduled support period (SSP). 2 weeks prior to an SSP.	Submit scheduling request to GSFC covering a weekly period. Receive schedule from GSFC based on principles of priority (Ref. § 1215.109(b)(2)). Acknowledgement to GSFC required.
Up to 12 hours prior to an SSP..	Can cancel an SSP without charge (Ref. § 1215.113(a)(1)).
Up to 45 minutes prior to an SSP..	Can schedule an SSP if a time slot is available without impacting another user.
Between SSP minus 45 minutes and the SSP..	Schedule requests will be charged at the disruptive update rate (Ref. § 1215.109(b)(5)).
Real-Time. ....	Emergency service requests will be responded to per the priority system (Ref. § 1215.109(b)(3)) and assessed the emergency service rate.

[56 FR 28049, June 19, 1991]

**PART 1216—ENVIRONMENTAL QUALITY**

**Subpart 1216.1—Policy on Environmental Quality and Control**

Sec.

1216.100 Scope.

1216.101 Applicability.

1216.102 Policy.

1216.103 Responsibilities of NASA officials.

**Subpart 1216.2—Floodplain and Wetlands Management**

1216.200 Scope.

1216.201 Applicability.

1216.202 Responsibility of NASA officials.

1216.203 Definition of key terms.

1216.204 General implementation requirements.